

**S**YSTEM **P**LANNING & **A**NALYSIS **R**eport

**S-99**

T.H. 96  
T.H. 35W TO T.H. 61

S.P. 6224

MAY, 1972

PREPARED BY  
**OFFICE OF SYSTEM PLANNING**



**MINNESOTA  
DEPARTMENT  
OF HIGHWAYS**



DEPARTMENT HIGHWAY - Statewide Planning -  
Room 807 - Extension 3158

# Office Memorandum

TO : Paul G. Velz  
Road Design Engineer

DATE: May 18, 1972

FROM : Morris Gildemeister, Chief  
Statewide Planning Section

SUBJECT: T.H. 96, T.H. 35W to T.H. 61  
S.P. 6224  
System Planning and Analysis Report S-99

In response to K. K. McRae's October 29, 1971 request for ADT, DHV, and HCADT on the project location shown on the map on Page 2, the Statewide Planning Section transmits this report.

The following data are tabulated on Pages 4-6 for estimated 1985 ADT volumes shown on the Page 3 map.

- a) Total ADT
- b) Vehicle Type Distribution
- c) Total HCADT

Basic data, method, and assumptions used to prepare this report are presented on Page 7.

*Morris Gildemeister*

Morris Gildemeister, Chief  
Statewide Planning Section

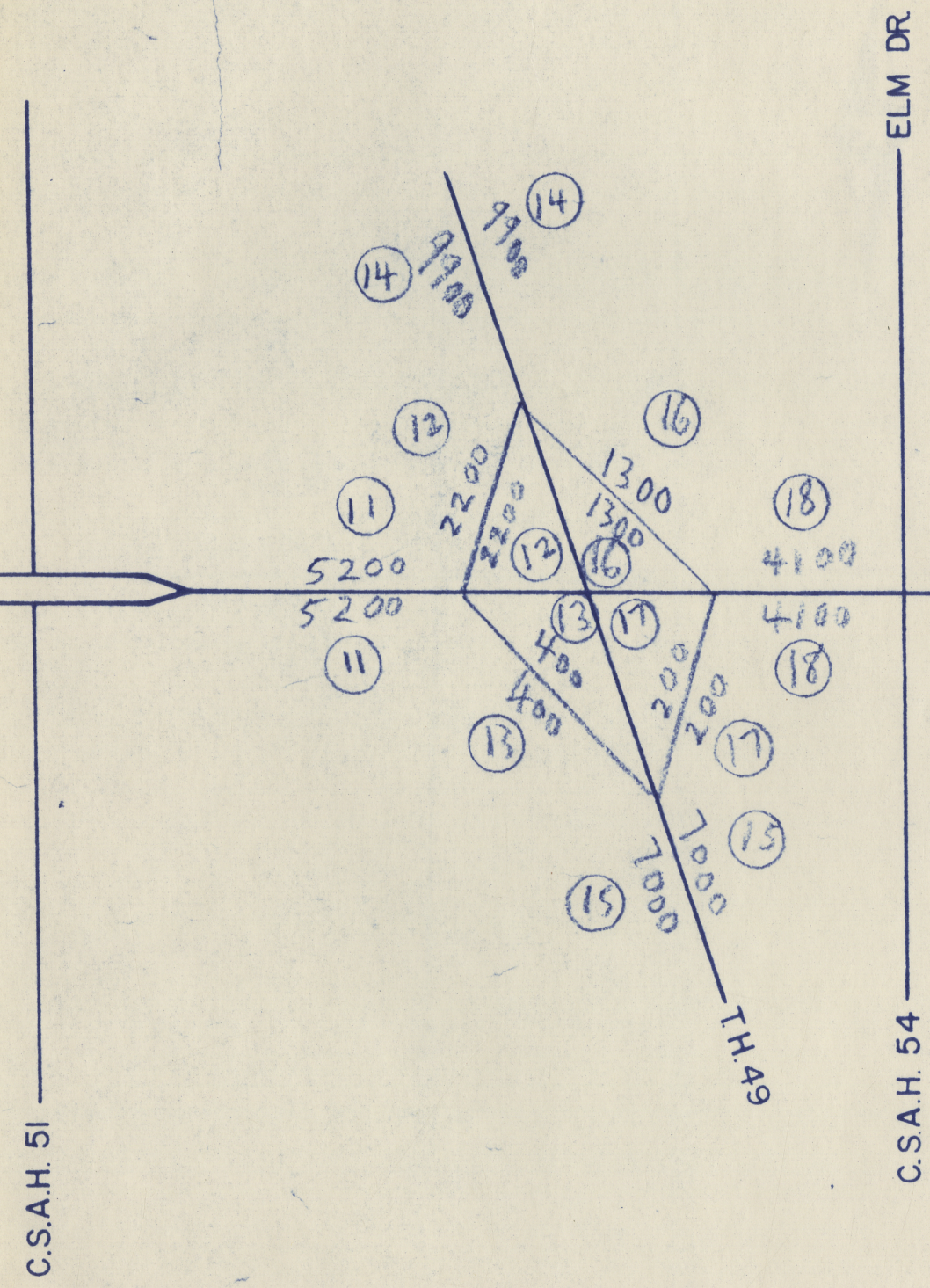
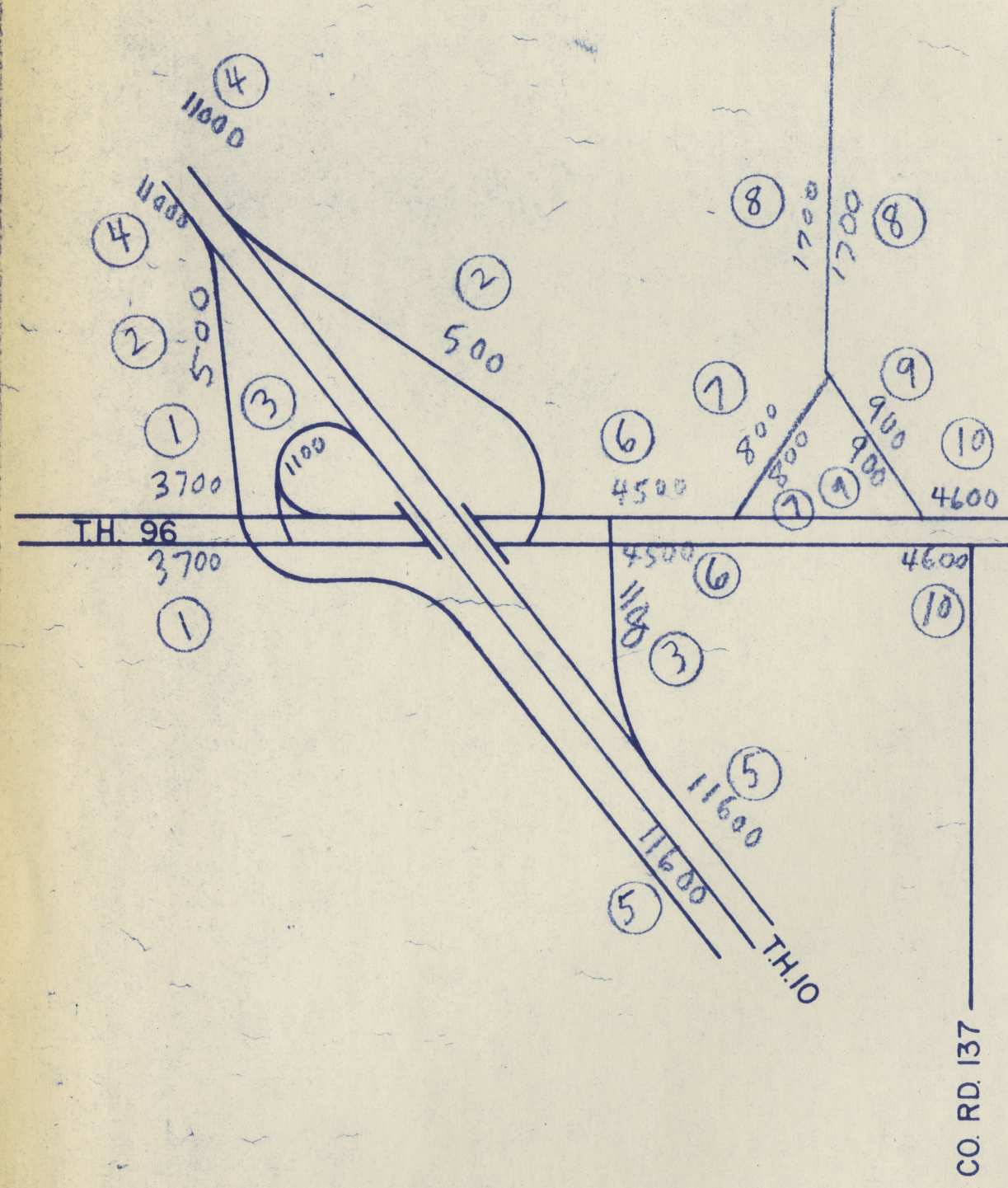
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STATE OF MINNESOTA  
DEPARTMENT OF HIGHWAYS  
WORK MAP

Project Location  
S.P. 6224











C.S.A.H. 57

C.S.A.H. 59

TH. 35E

BIRCH LAKE BLVD.

CO. RD. 148 (OTTER LAKE RD.)

(19)  
5100  
(19)  
5100

(21)  
3800

(23)  
11600  
(23)  
11600

(20)  
2100

(22)  
9900  
(22)  
9900

(21)  
3800

(20)  
2100

(24)  
6200  
(24)  
6200

(25)  
6100  
(25)  
6100

(27)

(29)  
10000

T.H. 61



S-99  
May, 1972

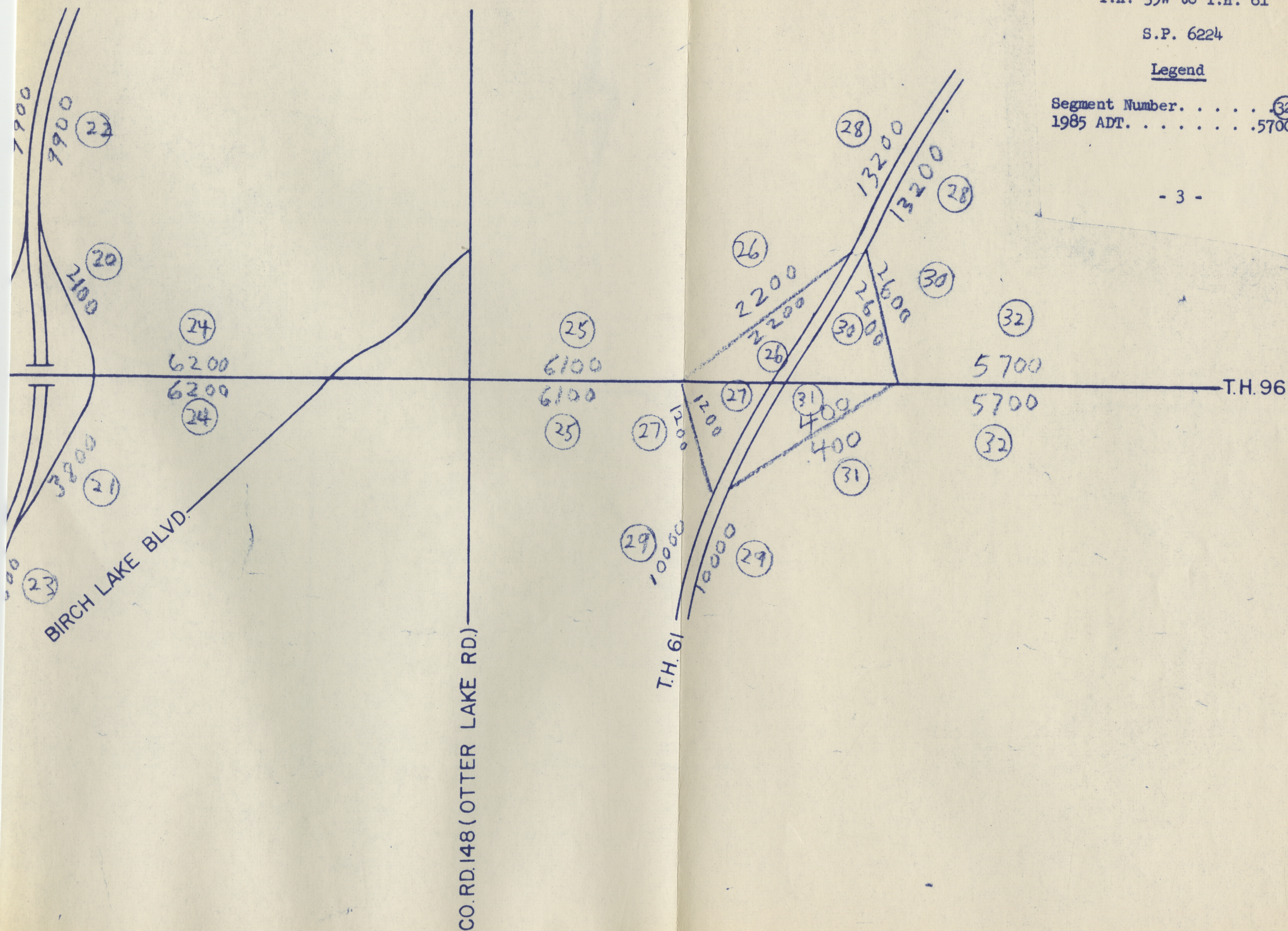
T.H. 96  
T.H. 35W to T.H. 61

S.P. 6224

Legend

Segment Number. . . . . 32  
1985 ADT. . . . . 5700

- 3 -





## TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 3

FOR

T.H. 96 S.P. 6224 LENGTH ---- MILESCOUNTY Ramsey LOCATION T.H. 35W to T.H. 61

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	3512	452	996	10209	10753	4238	641	1361	720	4317	4948
1	143	38	82	243	287	203	124	265	141	220	195
2	15	4	9	120	125	20	12	26	14	22	20
3	11	2	4	38	40	15	8	16	8	15	13
4	5	-	2	70	72	5	3	6	3	5	5
5	4	1	1	250	250	6	4	8	4	6	6
6	10	3	6	70	73	13	8	18	10	15	13
TOTAL ADT	3700	500	1100	11000	11600	4500	800	1700	900	4600	5200
TOTAL H. COMM. ADT	188	48	104	791	847	262	159	339	180	283	252
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

## \* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS  
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS  
 2 = SINGLE UNIT-3 AXLE TRUCKS  
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES  
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES  
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES  
 6 = BUSES AND TRUCKS WITH TRAILERS

## TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 2 OF 3

FOR

T.H. 96 S.P. 6224 LENGTH ----- MILESCOUNTY Ramsey LOCATION T.H. 35W to T.H. 61

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17	18	19	20	21	22
0	2116	376	9492	6697	1242	187	3885	4849	2004	3659	9307
1	55	16	248	181	36	8	168	196	43	70	273
2	7	2	30	22	4	1	16	19	19	26	70
3	6	1	30	21	4	-	10	12	6	10	41
4	4	1	20	16	2	1	3	4	7	7	58
5	3	1	40	33	6	1	9	10	13	18	122
6	9	3	40	30	6	2	9	10	8	10	29
TOTAL ADT	2200	400	9900	7000	1300	200	4100	5100	2100	3800	9900
TOTAL H. COMM. ADT	84	24	408	303	58	13	215	251	96	141	593
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

## \* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS  
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS  
 2 = SINGLE UNIT-3 AXLE TRUCKS  
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES  
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES  
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES  
 6 = BUSES AND TRUCKS WITH TRAILERS



TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 3 OF 3

FOR

T.H. 96 S.P. 6224 LENGTH ----- MILES

COUNTY Ramsey LOCATION T.H. 35W to T.H. 61

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 32 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	23	24	25	26	27	28	29	30	31	32	
0	10962	5872	5776	2105	1150	12531	9501	2458	383	5362	
1	300	225	222	49	35	383	266	115	12	265	
2	77	38	37	18	6	52	36	6	2	21	
3	45	16	16	12	2	53	41	2	-	4	
4	58	10	10	4	2	45	38	6	1	11	
5	127	23	23	7	4	70	59	10	2	24	
6	31	16	16	5	1	66	59	3	-	13	
TOTAL ADT	11600	6200	6100	2200	1200	13200	10000	2600	400	5700	
TOTAL H. COMM. ADT	638	328	324	95	50	669	499	142	17	338	
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

\* VEHICLE TYPE CODE

- 0= PASSENGER CARS AND 4 TIRE TRUCKS
- 1= SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
- 2= SINGLE UNIT-3 AXLE TRUCKS
- 3= TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4= TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
- 5= TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
- 6= BUSES AND TRUCKS WITH TRAILERS

Basic Data, Method, and Assumptions

The 1985 ADT and peak hour volumes for this project section are trans-  
mitted March 24, 1972 in SPAR M-79.

The total heavy commercial ADT for this report is based on System "14"  
Heavy Truck ADT Study.

Vehicle type distributions are based on vehicle classification counts  
taken on roads with similar travel characteristics as those of the  
studied area. Segments 7, 8, 9 reflect heavy truck traffic at the  
entrance of the Twin Cities Arsenal Plant which highly fluctuates de-  
pending on war supply demands.

The 1995 ADT may be obtained by expanding 1985 traffic volumes by 30  
percent.